



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXaerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO29272

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
001	6	EA	MS17984C310		1448887	AVIBANK MFG.	84256		


Jason Lewis
Senior Director, Global Quality

07/24/15

Inv # 07/24/15

** DEARS ** ** CERT Q13-P **



AVIBANK
MFG. INC.

AEROSTRUCTURES DIVISION, A PCC COMPANY

11500 SHERMAN WAY • NORTH HOLLYWOOD, CA 91605

PHONE: (818) 392-2100 • FAX: (818) 255-2094

No ozone depleting substances used in processes.

CERTIFICATE OF CONFORMANCE

SHIPPER

DATE SHIPPED

06/29/14

PAGE	OF	DATE ENTERED	SALES ORDER NO.
1	1	10/25/13	675322-0402

B 103866
I B/E AEROSPACE, INC. (MIAMI)
L 10000 N.W. 15TH TERRACE
L
T MIAMI, FL
O USA 33172

S B/E AEROSPACE CONSUMABLE MGMNT
H 9835 NW 14TH ST
I
P
T MIAMI, FL
O USA 33172

CUSTOMER ORDER NO. 0SWB90				CONTRACT NUMBER				RATING		ORDERED BY SASHA		REC'D BY GLE		TERRITORY NO. 124	
P/S		CERT	INV	DD 250 REQ'D	PRES PKG REQ'D	RESALE OR TAX	VAR %	TYPE OF INSPECTION			TERMS 1/2% 10, NET 30			FREIGHT NOHO/COLLECT	
0	1	1	3	N	N	R									
SHIPPED VIA FEDEX GROUND															
ITEM NO.	NO. SHIPPED UNITS		PART NUMBER / DESCRIPTION								NO. BACKORDERED				
1	289 E		FEDEX ACCT# 0331-0149-0 QAP 33.0 CLAUSES A,A.1,B,C,E,H,P,U,V APPLY *** 3 LOT MAX *** RELEASE RSG20SWB90. BLC3BA10S MS17984C310 SHIP#: 1 QTY : 289 LOT:1448887 AREA : AISLE : SEC: TO OUR VALUED CUSTOMERS A RETURN MATERIAL AUTHORIZATION (RMA) NUMBER IS REQUIRED FOR ALL PRODUCTS RETURNED TO AVIBANK TO REQUEST A RMA NUMBER CONTACT YOUR AVIBANK SALES ASSOCIATE AT 818/392-2100 THESE COMMODITIES WERE EXPORTED FROM AVIBANK MFG., INC. IN ACCORDANCE WITH EXPORT ADMINISTRATION REGULATIONS OR INTERNATIONAL TRAFFIC IN ARMS REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED. COMPLIANT WITH DFARS 252.225.7014 ALT 1								1				
PULLED BY		SHIPPED BY		SHIP VIA		DATE SHIPPED 6-29-14		WAYBILL/OTHER INFO				NO. OF PKGS.		WEIGHT	

We hereby certify that all materials used in the manufacture of parts covered by this report conform to the material specifications called for by the above purchase order. We further certify that the parts are manufactured in accordance with applicable drawings or specifications current on the date on which the order was placed. Test reports covering materials in these parts, and indicating conformance with applicable specifications, are on file and subject to examination. No ozone depleting substances were used in processes. Parts are mercury free of contamination.

WI-14-AMS-004 REV:NC

AVIBANK MFG., INC.

BY: *[Signature]*
AUTHORIZED QUALITY CONTROL REPRESENTATIVE

**AVIBANK**
MFG. INC.

AEROSTRUCTURES DIVISION, A PCC COMPANY

11500 SHERMAN WAY • NORTH HOLLYWOOD, CA 91605

PHONE: (818) 392-2100 • FAX: (818) 255-2094

CERTIFIED TEST REPORT

1 of 1

CUSTOMER: B/E AEROSPACE, INC. (MIAMI)**SHOP ORDER NO./WORK ORDER NO.:** 1448887**CUSTOMER P/N:** MS17984C310**CUSTOMER P.O.:** 0SWB90**QTY. SHIPPED:** 289**AVIBANK P/N:** BLC3BA10S RV.N**PART NAME:** S/A STANDARD**PROCUREMENT SPEC:** NAS1332**BODY WO.:** SB30182 **QTY. MFG'D:** 289

PROCESS	PROCESSOR	TYPE/CLASS	SPECIFICATION
ANODIZE	ANODIZING INDUSTRIES, LOS ANGELES, CA	II/2	MIL-A-8625 'F'
ANODIZE	K & L ANODIZING CORP., BURBANK, CA	II/2	MIL-A-8625 'F'
HEAT TREAT	AVIBANK MFG., INC., NO. HOLLYWOOD, CA.	CH900	AMS2759 'E'
HEAT TREAT	AVIBANK MFG., INC., NO. HOLLYWOOD, CA.	HRC 40 MIN	AMS2759 'E'
PASSIVATE	AVIBANK MFG., INC., NO. HOLLYWOOD, CA.	2	AMS2700 'E'

NO.	* BOLT TENSILE (LBS.)	TORQUE (IN-LBS.)	* RETAINING DEVICE TENSILE (LBS.)	() ** SHEAR (LBS.)
1.	N/A	N/A	217 NF	5,993
2.	N/A	N/A	220 NF	6,043
3.	N/A	N/A	217 NF	6,231
4.				
5.				
REQT.	N/A MIN.	N/A MIN.	200 MIN.	5,150 MIN.

* BF = BALL HOLE FAILED. * TF = THREADS FAILED. * NF = NO FAILURE. ** (S) = SINGLE SHEAR. ** (D) = DOUBLE SHEAR.

OTHERS: THESE PARTS WERE LAB TESTED PER 'NAS' REQTS AND FOUND ACCEPTABLE.
SALES ORDER NO. 675322-0402.

AVIBANK MFG., INC. CERTIFIES THAT THE PARTS LISTED ABOVE WERE MANUFACTURED IN COMPLIANCE WITH YOUR PURCHASE ORDER. ALL TEST AND INSPECTION REPORTS ARE ON FILE AT AVIBANK FOR VERIFICATION.

AUTHORIZED SIGNATURE:

TERRENCE WAITS Q.C. CLERK

**DATE:** 06/29/14

WI-03-CTR-005 rev NC

Order No: 3748031
Time 07:06:05



FRY STEEL COMPANY
Registered ISO 9001
13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562) 802-2721

A08040
Cust. NO.: 760385
P.O. NO.:

CERTIFICATE OF COMPLIANCE

AVIBANK MFG INC
ATTN: ACCTS PAYABLE
P O BOX 9909
NORTH HOLLYWOOD CA 91609-1909

AVIBANK MFG
11500 SHERMAN WAY
***RECEIVING CLOSED 11:30-12**
NORTH HOLLYWOOD CA 91605-5827

04/23/14

QTY	DESCRIPTION	ITEM CODE	HEAT NUMBER
	✓ CG 17CR 4NI PPT HT SOL TR PH AMS 5643 SILVER/RED		
250	BARS .130"RD 12'RL	9070	E131099
440	✓ BARS .1925"RD 12'RL	9120	E130790 ✓
75	BARS .505"RD 12'RL	9380	G20854
75	BARS .630"RD 12'RL	9450	571176
25	BARS .755"RD 12'RL	9510	571616

CERT REVIEW

MAIN LOT #
1448887
COMPONENT LOT #
SB30182
NAME
Booy
CLERK: GV NC DS

NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED*

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE.
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.

AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION(I.E. MAG., SONIC,ETC.)

WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION. PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED
CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM
CONTAMINATION AT TIME OF SHIPMENT

The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.
*WHEN APPLICABLE

— TO THE BEST OF OUR KNOWLEDGE MATERIAL IS CONFLICT MINERAL FREE —

Q. C. Review

Sig. *[Signature]*

Date 4/30/14

Lot# 1436398

[Signature]
CHP SANDOVAL - Q.C. MANAGER

FRY STEEL CO. CERTIFIES THAT THIS IS
A TRUE COPY OF THE ORIGINAL MILL TEST
REPORT NOW ON FILE
RECEIVED AND INSPECTED

TRI STAR METALS, LLC
375 VILLAGE DR.
CAROL STREAM, IL 60188
An ISO 9001:2008 Registered Company BY *Chip Sandoval*
CHIP SANDOVAL - Q.C. MANAGER

FEB 10 2014

CERTIFICATE DATE: 02/07/14 CUSTOMER: FRY STEEL COMPANY
ORDER#: 204271 CUSTOMER PO#: 47722-1
MATERIAL: 17-4PH ✓ DESCRIPTION: .1925" RD SS X 12" ✓
HEAT NUMBER: E130790 QTY. SHIPPED: 2,170 LBS
CONDITION: A - Solution Annealed, A.Q., Centerless Ground PART #: 9120

CHEMICAL COMPOSITION

C ✓	Mn ✓	Si ✓	S ✓	P ✓	Ni ✓	Cr ✓	Mo ✓	Other Elements
.0140	.7000	.4000	.0230	.0280	4.660	15.23	.1700	✓Cu=3.244 Co=.0670 N=.0360 Ti=.0010 ✓Nb=.2540 Al=.0020 B=.0011 V=.0600 W=.0200 As=.0010 Ca=.0013 Pb=.0002 Sn=.0090

MECHANICAL VALUES

TENSILE (KSI)	YIELD (KSI)	ELONGATION (%)	REDUCTION OF AREA (%)	HARDNESS
135	125	11	66	277 HB

✓ AFTER HT CAPABILITIES H900 900 F 1 HR AIR COOL

TENSILE (KSI)	YIELD (KSI)	ELONGATION (%)	REDUCTION OF AREA (%)	HARDNESS
202	198	12	53	411 HB

✓ ADDITIONAL REMARKS:

This material meets the specifications for: SOLUTION ANNEALED AT 1900F FOR 1.5 HRS;
AMS 5843R, AMS 2303E; ASTM A484-10; Capable of ASTM A564-04 TYPE 630, ASME A564-04
TYPE 630; MBO-160-003 EXC HARDNESS & ULTRASONIC; DFARS 252.225.7014 & 225.7002-
3(b) (1) COMPLIANT; Delta Ferrite=.4%; Micro & Macro Structures OK per AMS 5843

MATERIAL IS FREE FROM MERCURY CONTAMINATION. EN10204 3.1.B
MELT ORIGIN: ENGLAND

MATERIAL IS MANUFACTURED IN THE UNITED STATES OF AMERICA

I hereby certify that this data is correct as contained in the records of this company.

QUALITY CONTROL REPRESENTATIVE: *James P. Elliott*

QSD-007 REV. ORG. 4/17/2013

James P. Elliott-Quality Process Manager

Q. C. Review

Date

Lot# 1436398



Linear Motion. Optimized.

SHIP TO: AVIBANK MFG INC
11500 SHERMAN WAY
NORTH HOLLYWOOD CA 91605
United States

CERTIFICATE OF CONFORMANCE

DELIVERY NAME: 2980080 **DATE PRINTED:** 07-MAY-2014 **PAGE:** 1 of 1

SHIP FROM: ABEK LLC
492 Birch Street
Bristol CT 06010
United States

Tel: (860) 314-3921 **Fax:** (860) 314-3942

BILL TO: AVIBANK MFG INC
11500 SHERMAN WAY
NORTH HOLLYWOOD CA 91605
United States

PICK-UP DATE: 06-MAY-2014		SHIP METHOD: UPS-Air-Red Next Day		FREIGHT TERMS: COLLECT - FROM ORIGIN		FSCM:		
DELIVERY TERMS EXWORKS FACTORY		TAX NAME: EXEMPT		CUSTOMER TAX NUMBER:		WAYBILL: 1Z0176470161400507		
SHIPPING INSTRUCTIONS: ACCT# 60X10X				TAG NUMBER/REF:		PO REF#:		
ITEM NUMBER	REFERENCE ITEM	ITEM DESCRIPTION	CUSTOMER PO NO	ORDER NO.	LINE ORDER NUMBER	UOM	QTY ORDERED	QTY SHIPPED
SS0062501CRCDF	SS0062501CRCDF	1/16 440C GRADE 100 OK (R/C - DFAR) - SS0062501CRCDF	760833	1845582	1.1	MPC	60.0	60.0
COUNTRY OF ORIGIN: ****EAR99****		United States						
Lot Number L0014156	Quantity 60.0	Heat Number 565452	Hardness Test HRC				Hardness 60-61	
Material meets DFAR 252.225-7009:7014. Material certs meet ASTM F-2215. Material meets AMS QQ S 763 and AMS 5630 Heat Treat meets AMS 2759/5 Passivation meets AMS 2700 Country of Origin (Ball manufactured): USA Country of Melt (Material manufactured): USA								
These commodities, technology or software, if being exported from the United States must be exported in accordance with the Export Administration Regulations. Diversion contrary to U.S. Law is prohibited.								
CERT REVIEW								
MAIN LOT #			1448887					
COMPONENT LOT #			1403495					
NAME			BALL					
CLERK: GV NC DS			5-7-14					
NUMBER OF PACKAGES 1			GROSS WEIGHT 3.0 LB			VOLUME		
<p>THE UNDERSIGNED, INDIVIDUALLY, AND AS THE AUTHORIZED REPRESENTATIVE OF THOMSON INDUSTRIES INC., WARRANTS AND REPRESENTS THAT; ALL THE INFORMATION SUPPLIED ABOVE IS TRUE AND ACCURATE; THE MATERIAL COVERED BY THIS CERTIFICATION CONFORMS TO ALL CONTRACT REQUIREMENTS (INCLUDING BUT NOT LIMITED TO THE DRAWING AND SPECIFICATIONS); THE INSPECTION AND THE ANALYSIS HEREIN ARE TRUE AND ACCURATE.</p> <p style="text-align: right;"> QUALITY ASSURANCE MANAGER AUTHORIZED SIGNATURE </p>								

TI JQDHBVUI P SJZIGPSIDDSI.I/186I551VNIX.SELI/QP/\$Q76511

CERTIFICATE OF TESTS

CERT SERIAL# 000819782



CARPENTER

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

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- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
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04/09/12

SELLER/VERKAUFER/VENDEUR PAGE 1 OF 3

AIN

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
218140C	W45450	04/09/12	2400.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 565452

PRODUCT DESCRIPTION: CONSUMET TYPE 440C BEARING QUAL HOT DRAWN SEAM FREE
STRESS RELIEVED
PART NUMBER: 075304440VM

SPECIFICATION: AMS 5618 REV G (05/ /06)
AMS 5880 REV C (05/ /06)
AMS 5630 REV J (10/ /07)
AMS-QQ-8-763B (08/ /06)
ASTM-A756-09 EXCEPT: TENSILE
ASTM-A276-10

SIZE 0.075000 IN. (1.91 MM) RD WIRE INGOT 2

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN (XRF)	SI (XRF)	P (XRF)	S (COM)	CR (XRF)
1.02	0.43	0.72	0.015	LT .001	17.13
NI (XRF)	MO (XRF)	CU (XRF)			
0.15	0.44	0.08			

MACROETCH TESTED AND APPROVED PER ASTM E381 WITH RATINGS OF S1, R1 & C1 WHICH MEETS THE MAXIMUM REQUIREMENTS OF S2, R2 AND C2.

MACROETCH: TESTED TO ASTM-A-604; MAXIMUM VALUES ARE 1A, 2A, 3A, 4A

TENSILE AS SHIPPED, KSI(MPA) 111.0 (765) 118.0 (814)

HARDNESS , HB 228.5 (CONVERTED FROM TENSILE STRENGTH)

MAX QUENCH HARDNESS, HRC	63	1925 F (1052 C)	30 MN OIL TREAT
MAX QUENCH HARDNESS, HRC	58	1875 F (1024 C)	30 MN AIR COOL

FRACTURE GRAIN SIZE: 8

FRACTURE GRAIN SIZE: 8

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OK

APR 11 2012

Craig T. Smith

CONTINUED ON NEXT PAGE

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OF TESTS AL# 000819782 **CARPENTER**

Carpenter Technology Corporation
101 West Barn Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

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SEILER/VERKÄUFER/VEDELLPAGE 2 OF 3

ALN

CUSTOMER ORDER NO./BESTELL.-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
218140C	W45450	04/09/12	2400.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 565452
CARBIDE SEGREGATION - FREE FROM EXCESSIVE SEGREGATION (VILELLAS)
DECARB - NONE (VILELLAS)
MICROSTRUCTURE - SPHEROIDIZED ANNEALED (VILELLAS)

INCLUSION RATING - ASTM E45 METHOD D

ID		A		B		C		D	
		THIN	HEAVY	THIN	HEAVY	THIN	HEAVY	THIN	HEAVY
2A	1.0	00	00	00	00	00	00	000	000
	1.5	00	00	00	00	00	00	000	000
	2.0	00	00	00	00	00	00	000	000
	2.5	00	00	00	00	00	00	000	000
2X	1.0	00	00	00	00	00	00	000	000
	1.5	00	00	00	00	00	00	000	000
	2.0	00	00	00	00	00	00	000	000
	2.5	00	00	00	00	00	00	000	000
2A	1.0	00	00	00	00	00	00	000	000
	1.5	00	00	00	00	00	00	000	000
	2.0	00	00	00	00	00	00	000	000
	2.5	00	00	00	00	00	00	000	000
2X	1.0	00	00	00	00	00	00	000	000
	1.5	00	00	00	00	00	00	000	000
	2.0	00	00	00	00	00	00	000	000
	2.5	00	00	00	00	00	00	000	000

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CHEMISTRY CHECK (WT%) AT SIZE 5.000 IN. X 5.000 IN.

2A (TOP)	1.02
2X (BOTTOM)	1.03

MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A.
MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIRE-
MENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1,
SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.

DFARS
OK

CONTINUED ON NEXT PAGE

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OF TESTS
AL# 000819782
CARPENTER

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

04/09/12

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SELLER / VERKÄUFER / VENDEUR PAGE 3 OF 3

CUSTOMER ORDER NO. / BESTELL.-NR. / N° DE COMMANDE	CARPENTER NO. / WERKS.-NR. / N° DE REFERENCE INTERNE	DATE / DATUM / DATE	WEIGHT / GEWICHT / POIDS
218140C	W45450	04/09/12	2400.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 565452
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

TANIA M GRIFFITH
ADMINISTRATOR - QUALITY
CARPENTER TECHNOLOGY CORPORATION

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DEARS
OK

Tania M. Griffith

Job # 2929



FAST LANE PRECISION

Certificate of Conformance

Customer: Avibank MFG

Part Number: 16-3C

Rev: AC

Description: Shoulder Ring

Heat Number: H1A1

Order Quantity: 10330

Material Cert: C1769

Customer Purchase Order: 753786

Remarks


Q. C. Review

Sig. *N. D. [Signature]*

Date 4/4/14

Lot # 1428640

Parts were manufactured from documented work instructions, using approved suppliers and processors. All components have been inspected and approved with inspection and certification on file at our facility.


Quality Assurance Representative13 Mar 14
Date

CERT REVIEW

MAIN LOT #

1448887

COMPONENT LOT #

KB40103

NAME

SHOULDER RING

CLERK: GV — NC — DS —



**NORTH AMERICAN
STAINLESS**

SNA13145
METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

C1769

Certificate: 833261 02	Mail To: SUNNY STAINLESS STEEL, LLC. 2001 ELIZABETH STREET NORTH BEND, OH 44862	Ship To: SUNNY STAINLESS STEEL, LLC. 9848 U.S. 90 A SUGARLAND TX 77478
Customer: 0370 002	Date: 5/06/2013	Page: 1 of 1
NAS Order: LP 604 5	Steel: 303	
Your Order: NAS2492	Finish: Cold Draw	
	Dia/Thk: .6063 in	
	Log Length: 144.00 in	
	Corrosion:	

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
ASTM A582/11 EN 10204 3.1, ASTM A484/11
AMS 5640 TYPE 1, QQC-7543 CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF ENAR 282.225-7014A-1 NO DIRECTIVE
2011/65/EU, ROHS. REPAIR+ACC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
8739576	2500								

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

Test Supplier #	CM	C %	CU %	CR %	CO %	MN %	MO %	N %	NI %	P %	S %
81A1	US	.034	.17	17.31	.25	1.80	.26	.043	8.47	.035	.3300
		SI %									
		.51									

MECHANICAL PROPERTIES

1 #	HB	2TS	UTS	RA	KLing
o 1	No.	KSI	KSI	%	% 2"
8739576	213.0	81.41	105.43	34.37	32.08



Q. C. Review

Sig. *[Signature]*

Date 4/4/14

Lot # 1428640

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

M.D. 12/26/13

Technical
Dept. Mgr.

ERIC HESS



1901 N. Narragansett Ave. • Chicago, Illinois 60639
773/804.0404 • Fax 773/804.0408
www.industeel.com
An ISO 9001 Certified Company

11/05/13

ISW Order/Invoice Number: 171013-00

SOLD TO: A9990
AVIBANK MFG. CO.

SHIP TO: A9991
AVIBANK MFG. CO.
11500 SHERMAN WAY

P.O. BOX 9909
NO HOLLYWOOD CA 91609

NO. HOLLYWOOD, CA 91605

CUSTOMER PO: 751295

085017BT

.0850"17-7 PH STAINLESS COND C CNT CLS

WEIGHT: 500

HEAT NUMBER: E121590

CHEMISTRIES

C	Mn	P	S	Si	Cr	Ni	Al
.082 ✓	.880 ✓	.029 ✓	.001 ✓	.269 ✓	16.630 ✓	7.560 ✓	.926 ✓
Mo	Cu						
.310 ✓	.255 ✓						

CERT REVIEW

MAIN LOT #
1448887
COMPONENT LOT #
1403259
NAME
R106

PHYSICAL PROPERTIES

TENSILE: 253000C 307000CH

TORSIONS: OK

ROCKWELL #1:
ROCKWELL #2:

BENDS: OK
SALT SPRAY HOURS: CLERK: GV— NC— DS—
COATING WEIGHT:
GRAIN SIZE:

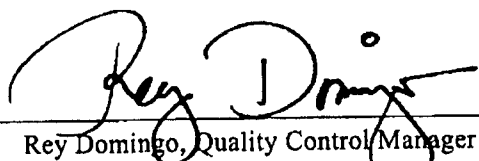
YIELD STRENGTH: 000000C/000000CH
ELONGATION:
REDUCTION OF AREA:

**** MERCURY FREE ****

*** SPECIFICATIONS ***
ASTM A313-10
AMS 5678-F ✓

TARIFF: 7223.00
NAFTA: B

MELT: GB UNITED KINGDOM ✓
ORIG: GB UNITED KINGDOM ✓
MILL: INDUSTRIAL ALLOYS
DFAR: Y
ROHS: Y


Rey Domingo, Quality Control Manager



1389733

NOV 8 '13

The values and specifications herein are passed through from the manufacturer directly to the customer.
Please see reverse side or www.industeel.com for all Terms and Conditions of Sale.
Material Properties Sheet 70403-MPS Version 1 Approved by BF 11/20/12



A Titanium Industries Company

7373 Hunt Ave., Garden Grove, CA 92841
Phone: 714-895-7756 Fax: 714-891-5308

CERTIFICATE OF COMPLIANCE

SOLD TO:

SPS - AVIBANK

CUSTOMER P.O. #: 755021	ORDER #: 375095	DATE SHIPPED: 1/20/2014
ALLOY: 17-4 ANN	TEMPER/COND.: SEE MTR	PACKING LIST#: 375095
HEAT NO: E111063	PRODUCER: INDUSTRIAL ALLOYS-ENGLAND	CUSTOMER REFERENCE:

SPECIFICATION:

AMS 5643R

ITEM DESCRIPTION:

.0937" RD.

500 PC(S)

138 LB(S)



SEE ATTACHED TEST REPORT

WE HEREBY CERTIFY THAT, TO THE BEST OF OUR KNOWLEDGE, ITEM(S) SHIPPED ON THIS ORDER HAVE BEEN INSPECTED AND TESTED AND FOUND IN CONFORMANCE WITH THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. PRODUCT CONFORMS TO THE REQUIREMENTS OF THE PURCHASE ORDER.

CERT REVIEW


Moises Aguilar
Authorized Certification Clerk

MAIN LOT #
1448887
COMPONENT LOT #
SB30149
NAME
SPINDLE
CLERK: GV ___ NC ___ DS ___


Q. C. Review
Sig 
Date 1/27/14
Lot # 1410881

Industrial Alloys

A Division of Tree Island Wire USA, Inc.
3880 W. Valley Blvd, Pomona, CA 91769
Phone (800) 255-8974 Fax (909) 595-0439

Mill Certificate

Order No : 302442
Sold To : Pierce-Spafford Metals Co 7373 Hunt Avenue Garden Grove CA
Cust Po# : 68191
Product : 936020 -1A CGB .0937 X 12' 17-4 500# W Box C 175 Max. ✓

Quantity/Heat : 495 LB

MECHANICAL PROPERTIES: ✓

Tag#	Dia "	T ksi	HRC
15595779			
Average values	.0940	139.000	29

Q. C. Review

Sig. *Nanaj*

Date 1/27/14

CAPABILITIES: ✓

	CTksi	CYksi	CX40	CXRA	CHRC
Average values	214.800	214.700	10.000	54.000	45

Lot# 1410881

CHEMICAL PROPERTIES: Mill / Country: SHEFFIELD, ENGLAND

HEAT#	✓ %C	✓ %Mn	✓ %P	✓ %S	✓ %Si	✓ %Cu	✓ %Ni	✓ %Cr
E111063	✓ 0.016	✓ 0.73	0.0240	0.0230	✓ 0.433	3.354	4.69000	15.29
	✓ %Mo	✓ %Cb	% Co	%N	%Ta	%CbTa	% Pb	% Cd
	0.26	0.2830	0.089	0.03200	0.0000	0.2830	0.0002	0.0000

SPECIFICATIONS: ✓

ASTM A484-11, Melt Certs Required, Free of Mercury, AMS 5643R, Cap @ 900F-1 HR-A/C
AMS 2303F, Condition SHT, Cap of ASME SA 564 T630, Solution Anneal @ 1900F
Macro / Micro Good, Capable of MBO 160-003 D, Cap of ASTM A564-10 T630

Industrial Alloys certifies that the materials described herein are represented to the Buyer(Customer) as stated to Industrial Alloys by the producing mill and attested to by said mills Test Report with respect to chemical analysis. Other properties stated herein are certified to be representative of tests performed by Industrial Alloys with the exception of those performed by the producing mill in which case they are a restatement of the Test Report as supplied to us by the producing mill. We further certify that all of the manufacturing processes applied to the wire and wire products described above, were performed in the United States of America.

ATI - Los Angeles

OCT 27 2011

Quality Control

Date : OCT 24 2011

Authorized Official :

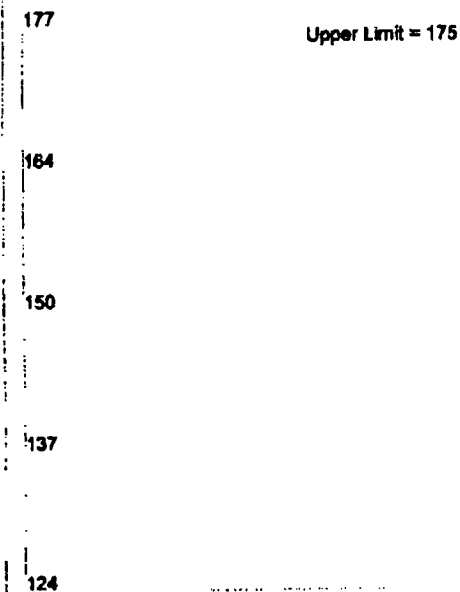
ADAM ROMERO
QUALITY ASSURANCE

Industrial Alloys

3880 W. Valley Blvd, Walnut, CA 91789
Phone (800) 255-6974 Fax (909) 595-0439

Order No : 302442
Sold To : Pierce-Spafford Metals Co 7373 Hunt Avenue Garden Grove CA
Cust Po# : 68191
Product : 936020 -IA CGB .0937 X 12' 17-4 500# W Box C 175 Max.

Quantity/Heat : 495 LB



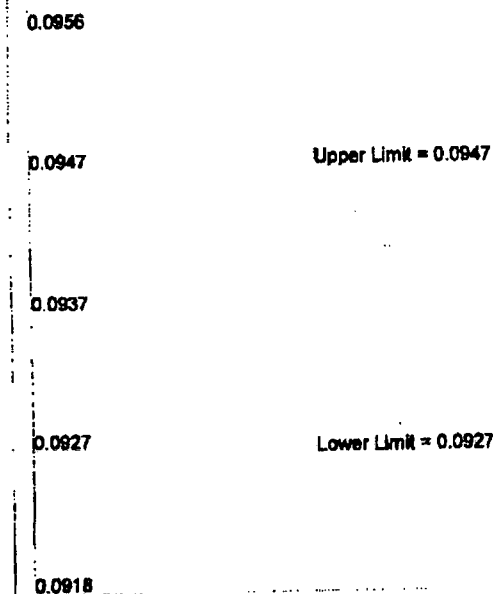
Tensile (Ksi)

Item : 936020
Heat : E111083
Average : 139.000
Range : 0
Std Dev : 0



Q. C. Review
Sig. *[Signature]*
Date 12/7/14

Lot # 1410881



Diameter (Inch)

Item : 936020
Heat : E111083
Average : .094
Range : 0
Std Dev : 0.0000

OUTO KUMPU

70658

In Accordance With EN 10204.3.1

NORM	SPECIFICATION	NORME
AISI 630, (17-4PH), 17-4 ISPR Rev 3, 02/15/01.		

Works No	AV193660701
Order Number No	
At the customer's name	
Location/Address	SOFTENED AND DESCALED
Post Code	
City	
Country	
Product	5.56 mm Round
Quantity	5 rod coils for 3.278t
Reference by	E111083
Date by	/
Signature	

Analyse de Coulees

WC	WM	Wm	WP	WS	Wv	Wto	WMI	WTI	WNB	WAI	WS
0.0160	0.4330	0.7300	0.0240	0.0230	15.2900	0.2600	4.8900	0.0060	0.2830	0.0080	0.0016
WCa	WCl	WEn	WFe	WV	WZn	WAs	WCo	WTr	WPh		
0.0890	3.3540	0.0210	0.0320	0.0700	0.0400	0.0080	0.0024		0.0002		

Caractéristiques mécanique

0.2%PS KPSI	1.0%PS KPSI	UTS KPSI	RA%	Compressive Grain Size Tells it's grain	Defining % elongation % Alignment %	Hardness Bareil	Hb
92.534	120.091	128.068	68.8	0.0 0.0	4.2		0.00

Descrb	Max	Batch Average	Batch Percentage	Cleaness
				Inter-crystalline Corrosion Test

Technical Magazine

T. Clarke

Date 02/09/2011

This order was manufactured according to a Quality System registered to ISO 9001:2004 and approved by TÜV Nord. Certificate-Registration No. 44 199 192409

Health, safety and environment is a key subject. The company has a strong commitment to the protection and improvement of the safety and health of its employees and the environment. The company has a strong commitment to the protection and improvement of the safety and health of its employees and the environment. The company has a strong commitment to the protection and improvement of the safety and health of its employees and the environment.

[illegible][illegible]

K & L Anodizing Corporation
Certification

Order No.: 320247

Date: 05/08/2014

Entry Date: 04/30/2014

Page: 1 of 1

To:

Avibank Mfg. Inc.
11500 Sherman Way
P.O. Box 9909
North Hollywood CA 91609-1909

Purchase Order No.: 760693

Packing List No.:

Material: 2024-T4

311363

We are pleased to provide you with the following Certification. The item(s) described were finished and accepted in accordance with the stated specification
Nadcap Accredited

Quantity	Part Number / Part Name / Part Description	Pounds
3,950	3-3AB Rev. J Button	

Mil-A-8625 Rev.F Amend. 1 KLC 001 / KLC 0007
Anodize per Mil-A-8625 Rev. F Am. 1 Type II Class 2 Blue.
Mercury Contamination Free

Insp. Type	Scale	Minimum	Maximum	Number	Other
Customer Requirements:					
Visual					Sample or 100%

LSS# 200

Notice: All finishing completed by K & L Anodizing will carry a liability not to exceed the amount of the finishing charges for the work done on any material. The only exception shall be by written agreement signed by both parties.



Q. C. Review

Sig. *Namleh*

Date 5/8/14

CERT REVIEW

MAIN LOT #

1448887

COMPONENT LOT #

K B30687

NAME

BUTTON

CLERK: GV ___ NC ___ DS ___

Lot# 1439731

Alva Mauleon

Nadcap AS7003 #4908143853 10/31/2015
Nadcap AC7108 #4908153454 10/31/2014

Alva Mauleon
Lab Tech
K & L Anodizing Corp.

Order No: 3702738
Time 16:17:08



FRY STEEL COMPANY
Registered ISO 9001
13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562) 802-2721

A08040
Cust. NO.: 755061
P.O. NO.:

CERTIFICATE OF COMPLIANCE

AVIBANK MFG INC
ATTN: ACCTS PAYABLE
P O BOX 9909
NORTH HOLLYWOOD CA 91609-1909

AVIBANK MFG
11500 SHERMAN WAY
***RECEIVING CLOSED 11:30-12**
NORTH HOLLYWOOD CA 91605-5827

01/17/14

QTY	-DESCRIPTION-	-ITEM CODE-	-HEAT NUMBER-
	✓ CF 2024 AL T4 QQA 225/6 RED		
342	✓ BARS 5/16"RD 12'RL	84030	13M215 ✓
1	BAR 7/16"RD 12'RL	84040	13M215
1	PC 3/8 X 1-1/4"FL CUT 84"LG CUT	86570	10112303-5
	CF 2024 AL T351 QQA 225/6 RED		
1	PC 1-1/8"RD CUT 60"LG CUT	84090	152938
5	BARS 1-3/16"RD 12'RL	84095	13M215
	EXT 2024 AL T3511 QQA 200/3 RED/WHITE STRIPE		
3	BARS 5/8"RD 12'RL CONTINUED...	85810	

CERT REVIEW

MAIN LOT #
1448887
COMPONENT LOT #
KB30687 ZWB120934
NAME
BUTTOL
CLERK: GV___ NC___ DS___

NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED*

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE.
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.

AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION(I.E. MAG., SONIC, ETC.)

WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED
CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM
CONTAMINATION AT TIME OF SHIPMENT

The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.
*WHEN APPLICABLE

-- TO THE BEST OF OUR KNOWLEDGE MATERIAL IS CONFLICT MINERAL FREE --



Q. C. Review
Sig. *[Signature]*
Date 2/7/14

[Signature]
CHIP SANDOVAL - Q.C. MANAGER

Lot# 1410845

7/16 RD

13M215

Aluminium Mill Certificate

Cert. No.: KAP628824
 Customer: TUSKER INTERNATIONAL TRADING INC. FRY STEEL
 Contract No.: US SM130929
 Alloy Temper: 2024-T4
 Container No: CBHU5883403/20



Taishan City Kam Kiu Aluminium Extrusion Co. Ltd
 Address: Daijiang County, Taishan, Guang Dong, China
 Tel: (86) 7505438596 Fax: (86) 7505438173

2024-T4 ✓

Standards: QQA 225/6 REV E; AMS QQA 225/6 REV A; ASTM B 211 2012; AMS 4120 REV R

Shipment Date: Jul 29 2013

PO No: 47540 1K

Invoice No: M131492

				2024 Chemical Composition (%)													Tensile Strength		Yield		Elongation
Product Code	Die No	Specification	Heat No (Batch No.)	Cast No.	Si	Mg	Fe	Cu	Mn	Zn	Cr	Ti	Pb	Bi	Zr	Al	N/mm ²	ksi	N/mm ²	ksi	%
					0.50 max.	1.2 max.	0.50 max.	3.8 max.	0.30 max.	0.25 max.	0.10 max.	0.15 max.	--	--	--	Rem.	425	62	310	45	10
84000	JET0361-S	DRAWN ROD	✓	✓	0.100	1.486	0.292	4.453	0.765	0.018	0.024	0.013	0.006			Rem.	557	81.0	523	76.0	11.8
84040	JET0361-S	DRAWN ROD			0.100	1.486	0.292	4.453	0.765	0.018	0.024	0.013	0.006			Rem.	481	70.0	423	81.0	10.8

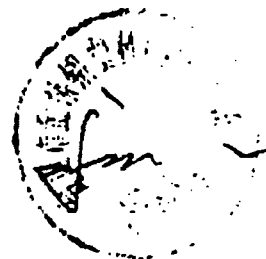
Remark:

Kam Kiu Aluminium Group hereby certifies that metal shipped under the above mentioned PO No, Contract No, and Container No has been inspected and tested, and found in conformance with the applicable specifications forming a part of the description set forth in Kam Kiu's Sales Contract. This Mill Test Certificate complies to 3.1 EN 10204.

Made By:

Waley

Checked By:



Q. C. Review
 Sig. *Namkye*
 Date 7/7/14

Lot# 1410845

FRY STEEL CO. CERTIFIES THAT THIS IS
 A TRUE COPY OF THE ORIGINAL MILL TEST
 REPORT NOW ON FILE
 RECEIVED AND INSPECTED

AUG 23 2013

BY *Chp. Andoul*
 OHP SANDOVAL - Q.C. MANAGER

Level 18, The Gardens North Tower, Mid Valley City, Lingkaran Syed Putra, 59200 Kuala Lumpur, Malaysia
 E-mail: info@kamkiu.com Web Page: www.kamkiu.com

CFR 5/16

CFR 7/16

Gibbs Certificate of Analysis

Gibbs Wire & Steel Company, Inc. 3751 Olive Road, South Bend, Indiana 46628

AVIBANK MFG INC.

11500 SHERMAN WAY

NO. HOLLYWOOD CA 91605 USA

Description: 0.0180" P/M.0004 ✓

17-7 PH COND. C GIBBSCOTE STAINLESS STEEL

Date Shipped: 10/11/2013

Cust Order #: 749508

Amount Shipped: 27.00

Heat Number: 61118

Mill Coil ID:

Gibbs Coil ID:

Gibbs Number: 26806

To Certify that the material shipped against your above order number is in accordance with

Specification: ASTM A313-10

AMS 5678F ✓

TYPE 631

C: 0.0790 ✓

Mn: 0.8900 ✓

P: 0.0230 ✓

Sul: 0.0010 ✓

Si: 0.3400 ✓

Cr: 16.4500 ✓

Ni: 7.6800 ✓

Mo: 0.2400 ✓

Co:

Cu: 0.2100

N2:

Fe:

Ti:

Al: 0.9400 ✓

Be:

W:

Zn:

Sn:

Pb:

Cb:

Ta:

V:

✓ PRE-HEAT

✓ POST-HEAT

MIN

MAX

MIN

MAX

Tensile Strength: 304,000

304,000

352,000

355,000

Condition CH900:

Mill Source/Rod Source: SUMIDEN

SWEDEN

Reduction of Area:

CERT REVIEW

MAIN LOT #

1448887

COMPONENT LOT #

KB30598

NAME

SPR106

CLERK: GV NC DS

MATERIAL FREE FROM MERCURY CONTAMINATION
COILING & WRAP TEST GOOD
DFARS COMPLIANT

Alison Fink

Gibbs Wire & Steel Company, Inc.
Certification Clerk

Allson Fink

Q. C. Review

Slg. *Nancy*

Date *10/25/13*

GWS #: 649612

Tel: (574)234-6071; Fax: (574)237-0712

Lot# 1384834



Credited Anodizing Industries Certification

Los Angeles, CA 90032
323-227-0949
Fax#: 323-227-0535
5160 Alhambra Ave

Prepared Date	Work Order #
2/27/2014	7834

Bill To	Ship To
AVIBANK MFG 11500 SHERMAN WAY NORTH HOLLYWOOD, CA 91605	AVIBANK MFG 11500 SHERMAN WAY NORTH HOLLYWOOD, CA 91605

P.O. Number	Date Received	Ship Date	Ship Via
757258	2/27/2014	2/27/2014	

QUANTITY	PART #	PART NAME	CERTIFIED PROCESS
4,110	5-3AB	HANDLE BUTTON TYPE R...	ANODIZE PER MIL-A-8625 TYPE II CLASS 2 BLACK MATL 2024T4
CERT REVIEW MAIN LOT # 1448887 COMPONENT LOT # K1330671 NAME HANDLE, BUTTON TYPE CLERK: GV NC DS			Q. C. Review Sig. Date 2/27/14 Lot# 1421148

QA Inspected By

Date 2/27/14

NDT Level II

Date

Anodizing Industries must be notified of any discrepancies within 3 days of receipt. Any liabilities for discrepancies or damages to parts are subject to negotiation and not to exceed 3 times the cost of services provided.

Certificate of Conformance

Sunshine Metals

2051 RAYMER AVE SUITE B FULLERTON, CA 92833
United States of America

Tel: 714-441-8120

Fax: 714-773-9901

Sales Order #

SO0050527

PO #

750045

Sold To:

AVIBANK MFG INC
P O BOX 9909
NORTH HOLLYWOOD, CA 91609-1909
United States of America

Ship To:

AVIBANK MFG INC
11500 SHERMAN WAY
NORTH HOLLYWOOD, CA 91609-1909
United States of America

Item Description Dimensions	Specifications Comments	Grade	Mill	Origin	Lot #
2024 .812 T351 CF ROD 144.0 in	AMS QQA 225/6 KAISER MATERIAL CERTIFY T4 TEMPER REF LINE # 1 1140 FT TOTAL \$ 4.60 LB	85	Kaiser Tennalum	United States of America	10045392

We hereby certify that the material covered by this certification has been tested in accordance with the above specifications and has been found to meet the applicable requirements. Supporting data for processing, testing and inspection is on file at this facility and is available for examination.

ALL PRODUCTS SOLD BY SUNSHINE METALS ARE SUBJECT TO U.S. EXPORT ADMINISTRATION REGULATIONS.
SPECIFICALLY, 2000/7000 SERIES ALUMINUM BAR WITH A DIAMETER OF 2.955 INCHES OR GREATER MAY REQUIRE AN EXPORT LICENSE

Any Known export requires an End Use Statement.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

ALL ITEMS SUBJECT TO PRIOR SALE
STANDARD SHIP TOLERANCE +/- 10%
Price in Effect applicable unless otherwise noted

Reference to Supplier Quality Assurance Requirements on purchase orders not accepted. All quality requirements must be fully defined on purchase order.



Quality Assurance Inspector

Stamp Or Printed Name

Signature

11/22/13

Date

CERT REVIEW

MAIN LOT #

1448887

COMPONENT LOT #

KB30671

NAME

HANDLE, BUTTON TYPE

CLERK: GV NC DS



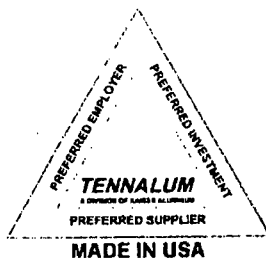
DEC 8 '13

1394625

KAISER ALUMINUM

FABRICATED PRODUCTS

Tennalum
309 Industrial Drive
Jackson, TN 38301
731-423-2811



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: PO0016390WC-1		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION: Cold Finished Round	
KAISER ORDER NUMBER: 692591	LINE ITEM: 1	SHIP DATE: 11/15/2013	ALLOY: 2024 ✓	TEMPER: T351	
WEIGHT SHIPPED: 713 lbs.	QUANTITY: 95 pcs.	B/L NUMBER: 36156	DIAM/DAF/THKNS: 0.8125 in. ✓	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO: Sunshine Metals 2051 Raymer Avenue Suite B Fullerton, CA 92833 USA			SOLD TO: Sunshine Metals 2051 Raymer Avenue Suite B Fullerton, CA 92833 USA		



Heat # 10045392



Tracer # 80015084

Test Code: 1000 AC

Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10045392	69.4	53.3	21.0

Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.06 ✓	0.17 ✓	4.5 ✓	0.73 ✓	1.3 ✓	0.01 ✓	0.17 ✓	0.02 ✓			10045392
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

Specifications

Standard: ISO 9001, ASTM B211-12, AMS 4120R, AMS-QQ-A-225/6A ✓

Miscellaneous Notes

Made in USA ✓



DEC 3 '13

1394675

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of T4 temper and of QQ-A-225/6E Amendment 1 (CANCELLED). This material is RoHS 2 compliant.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

John Rennekamp

Plant Serial: 195853

Kaiser Order Number: 692591

Line Item: 1